

FIG. 2

09554-0000 "05220" 05220

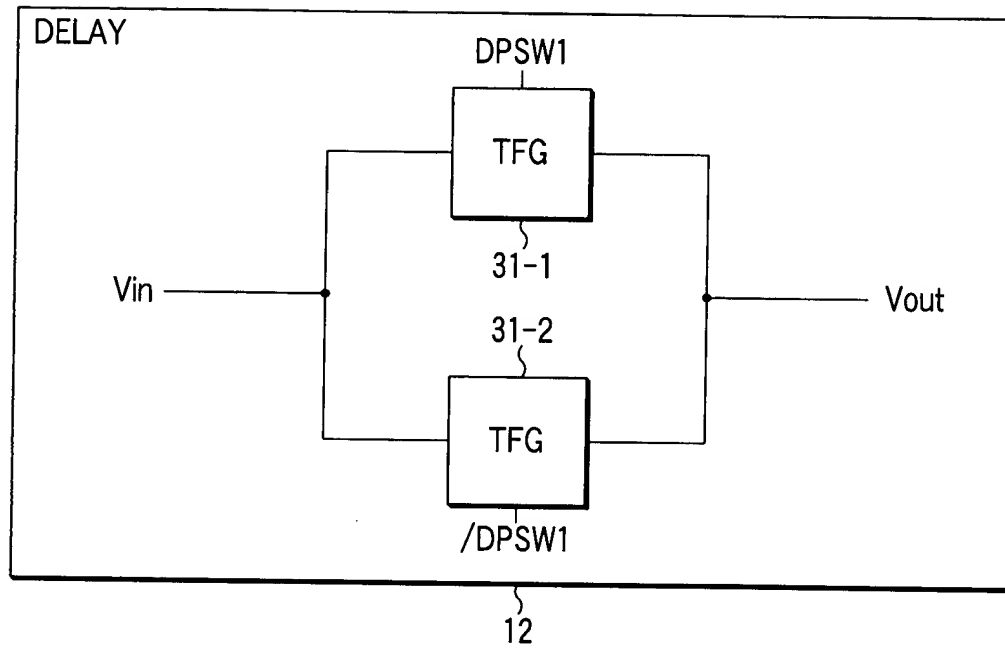


FIG. 3

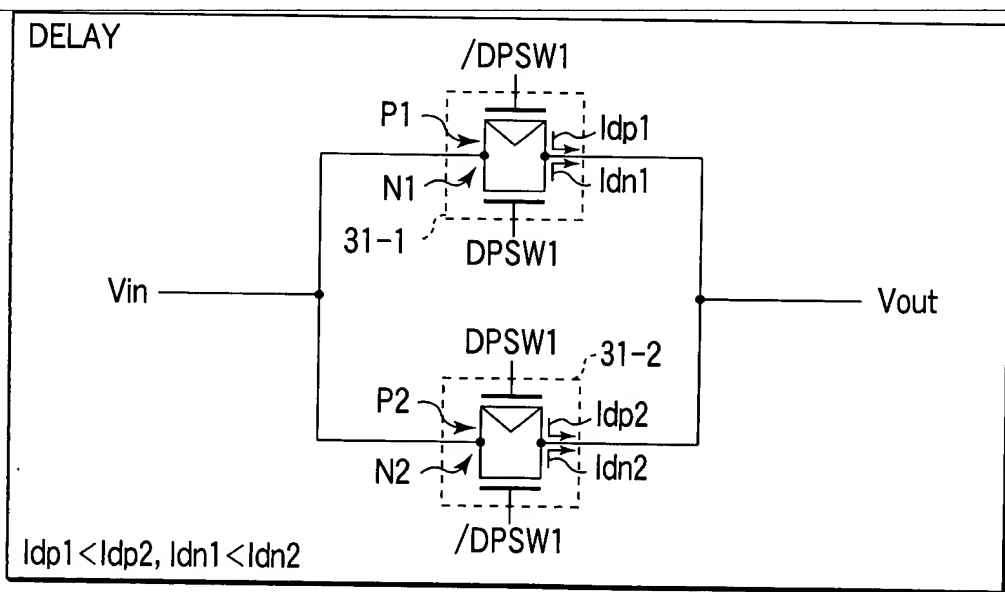


FIG. 4

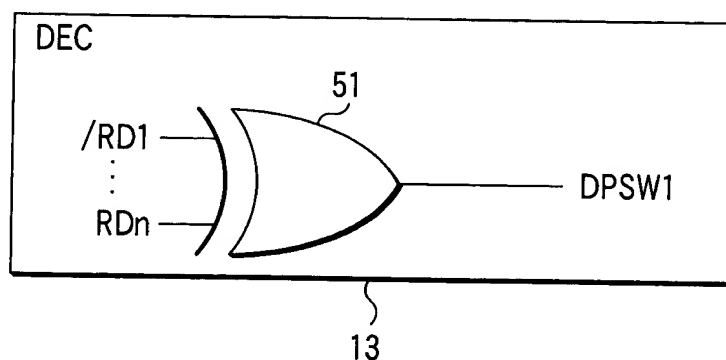


FIG. 5

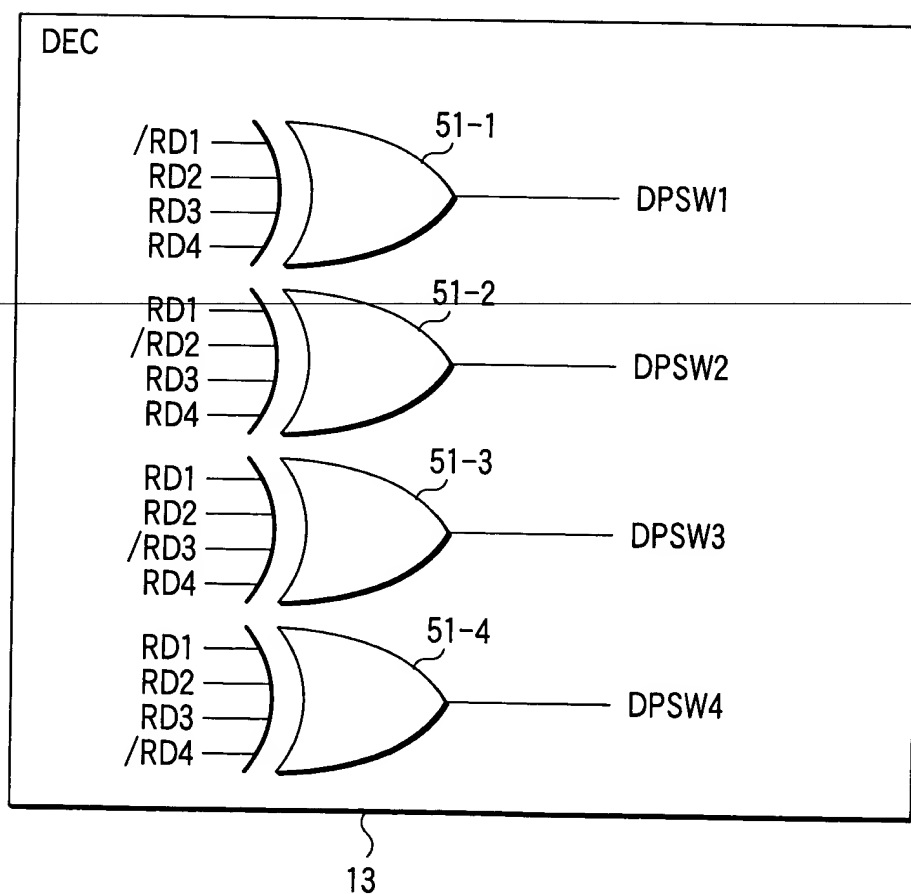


FIG. 6

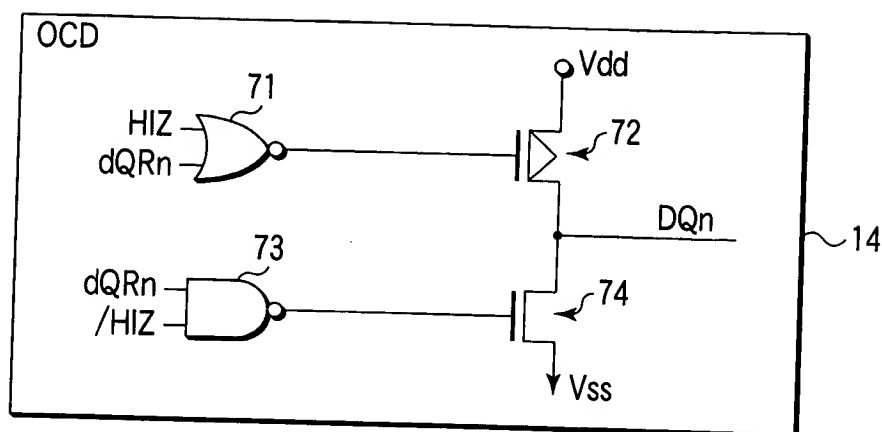


FIG. 7

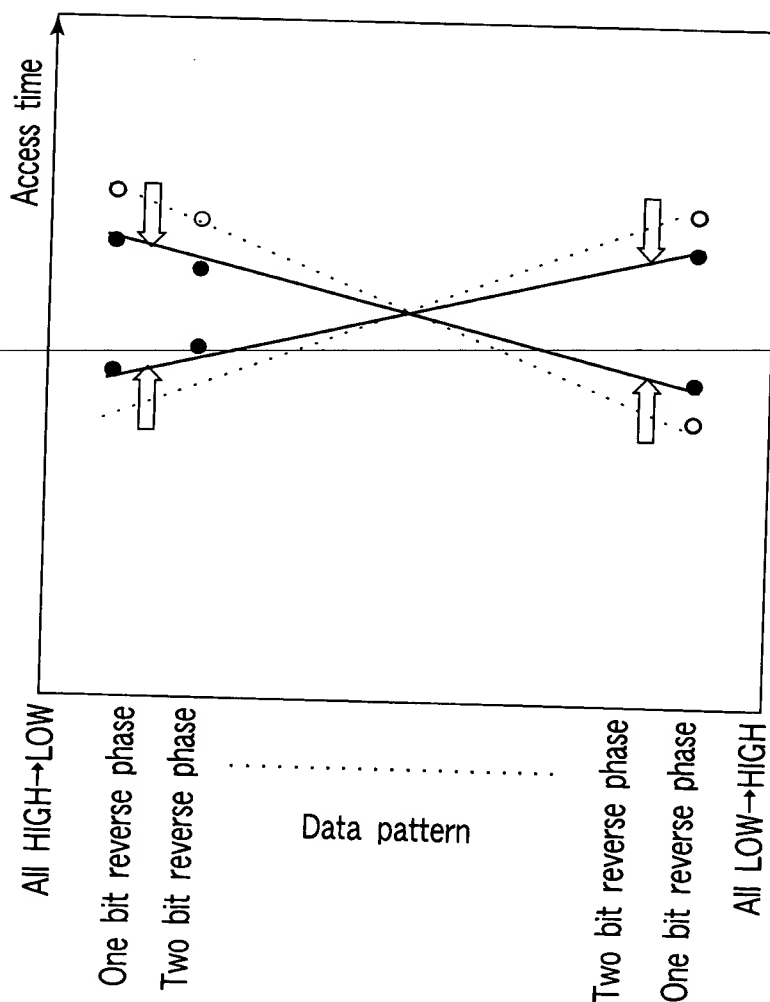


FIG. 8

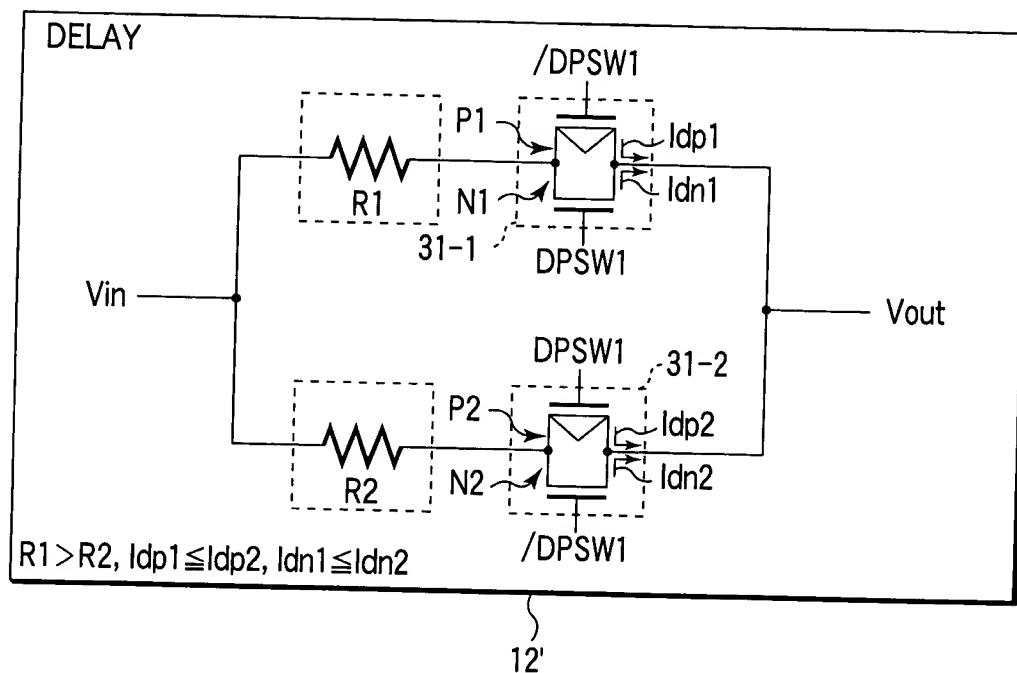


FIG. 9

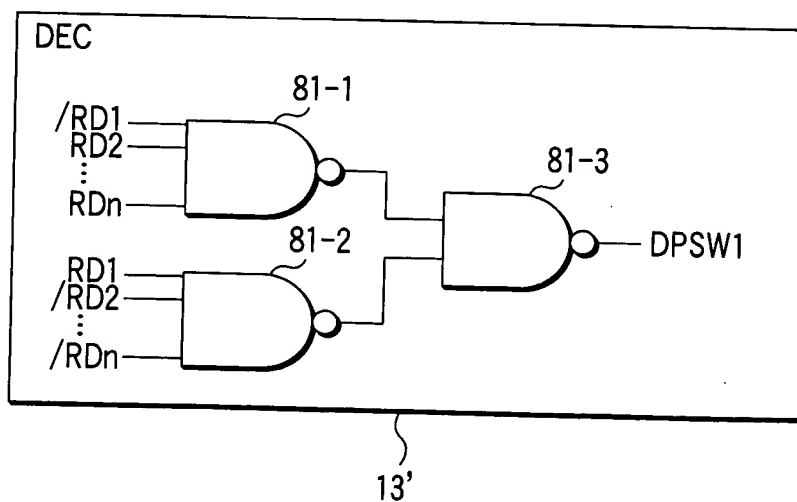


FIG. 10

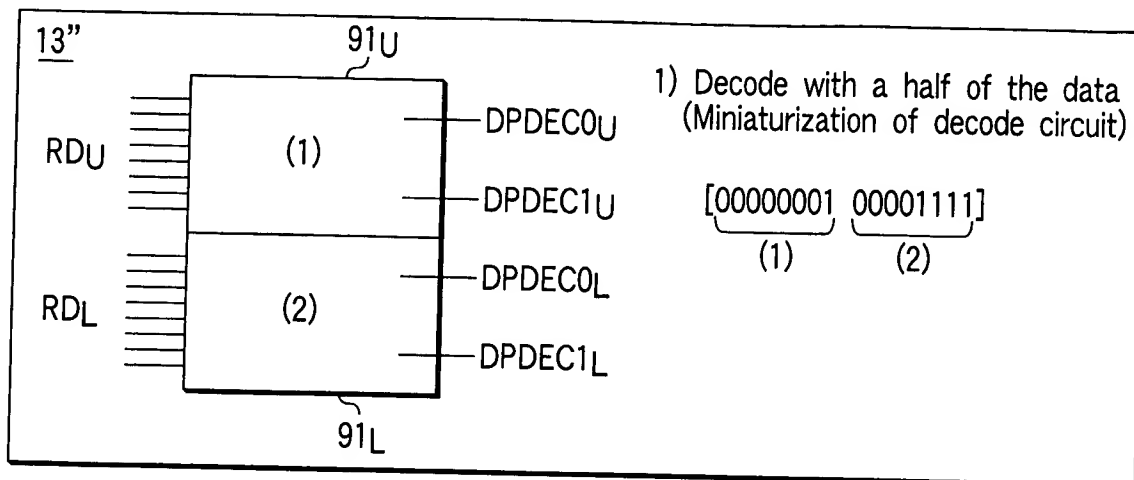


FIG. 11A

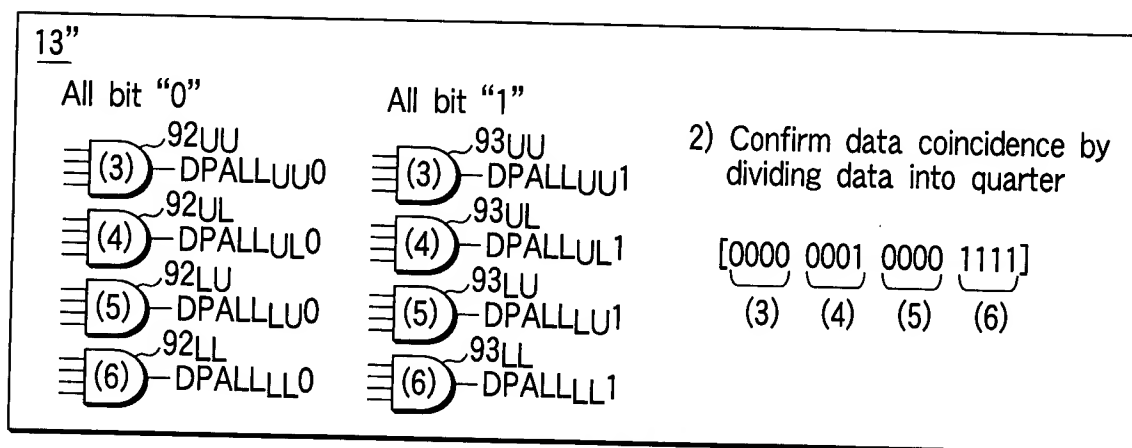


FIG. 11B

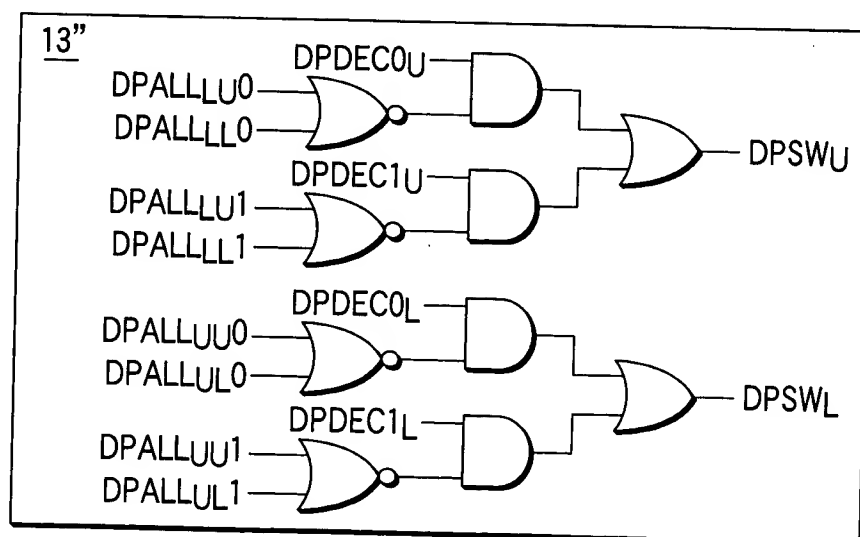


FIG. 11C

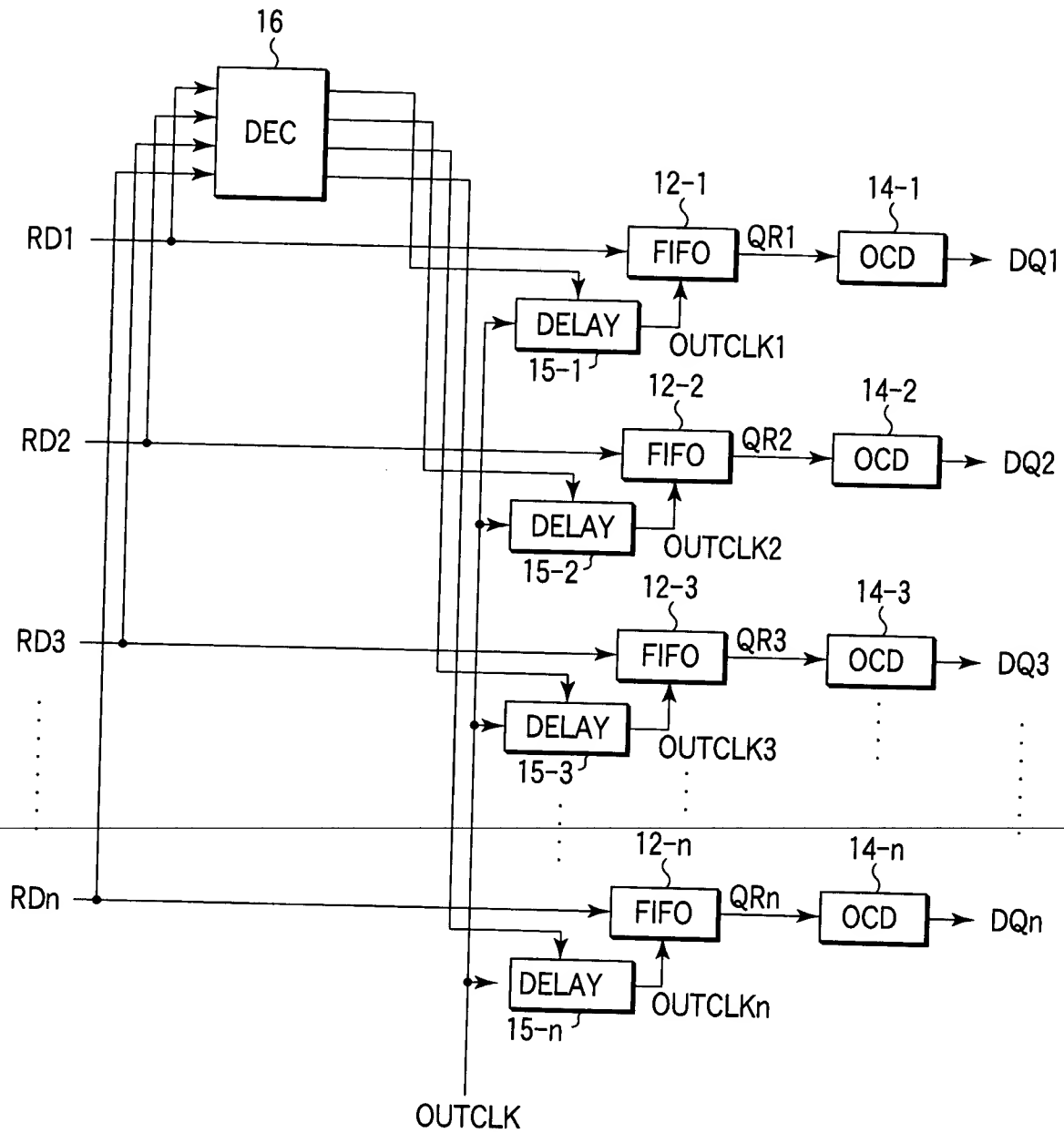


FIG. 12

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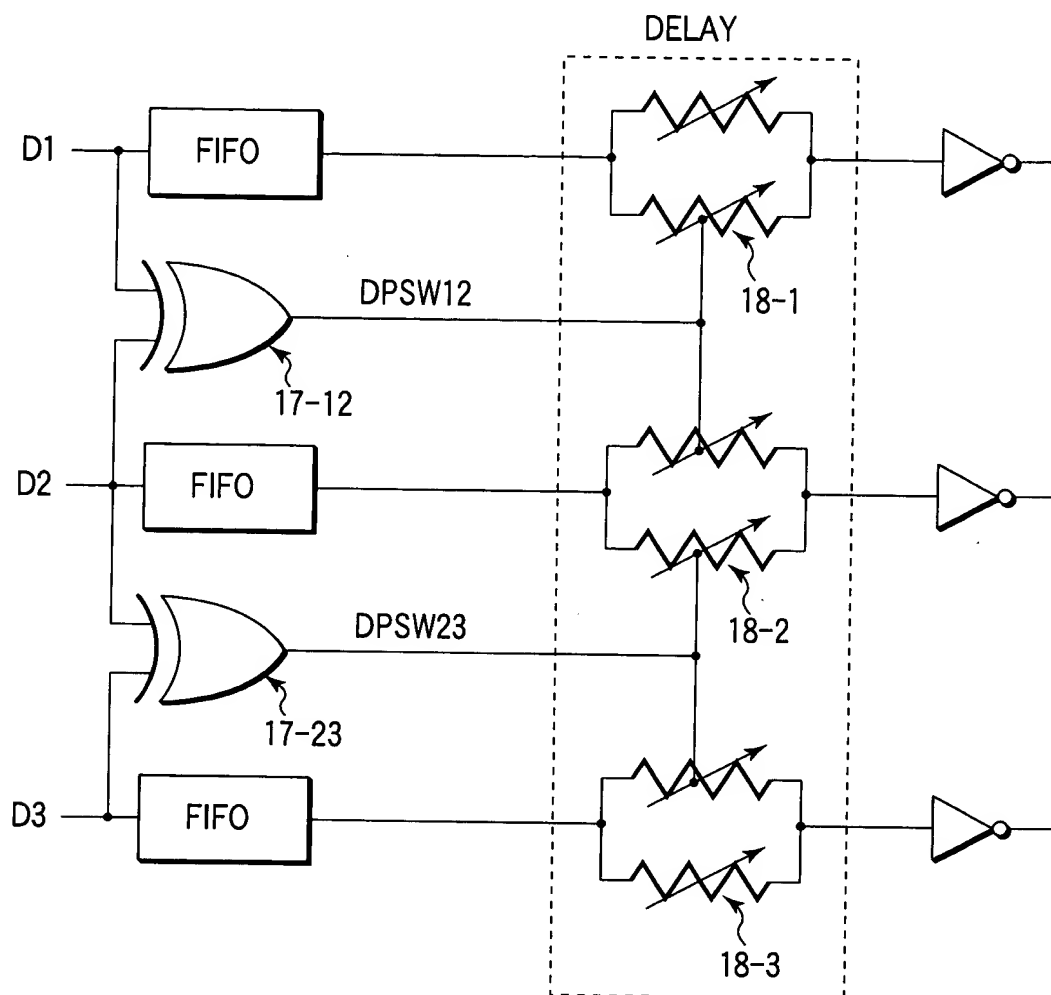


FIG. 13

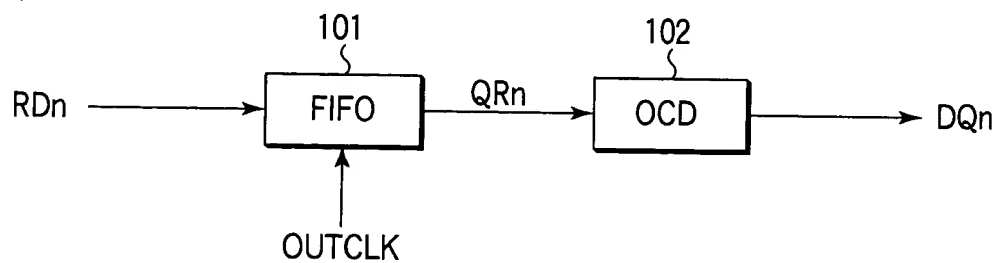


FIG. 14 PRIOR ART

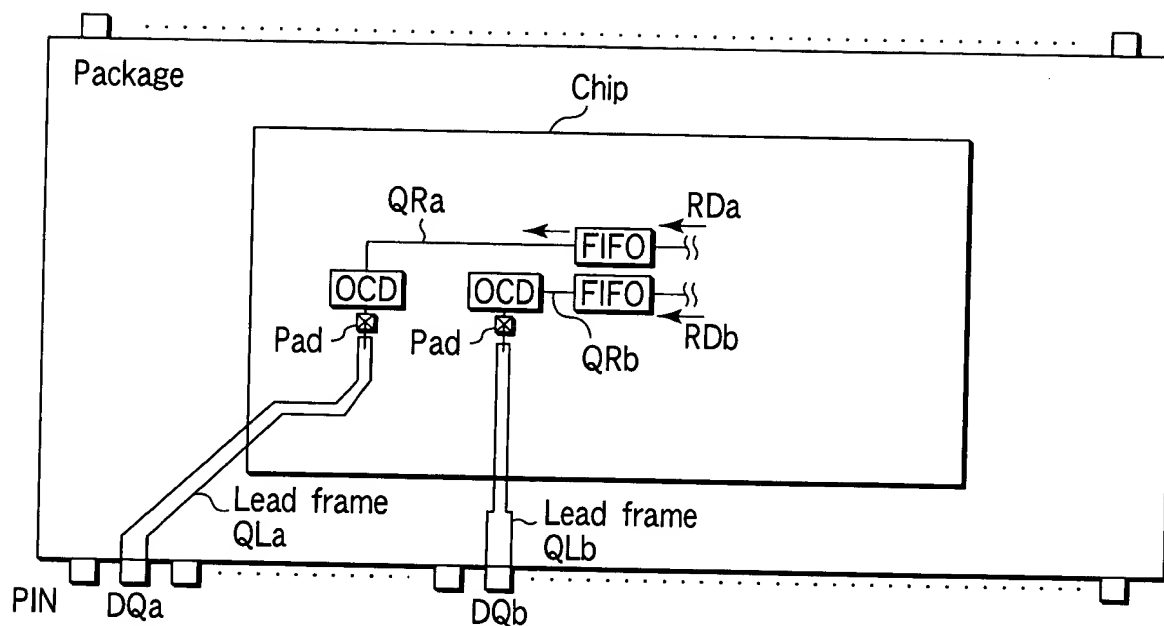


FIG. 15A PRIOR ART

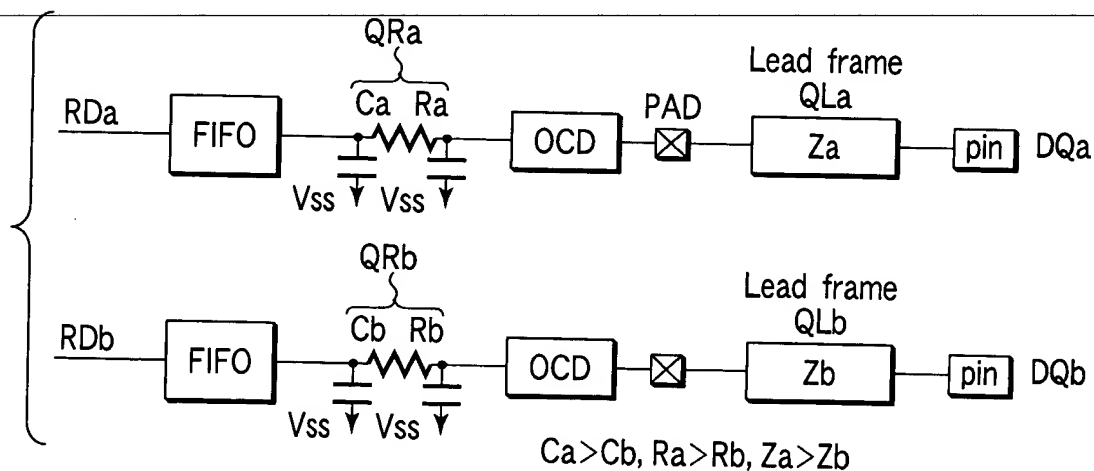


FIG. 15B PRIOR ART

FIG. 16A
PRIOR ART

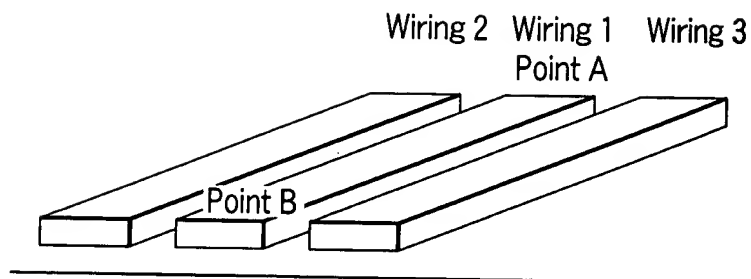


FIG. 16B
PRIOR ART

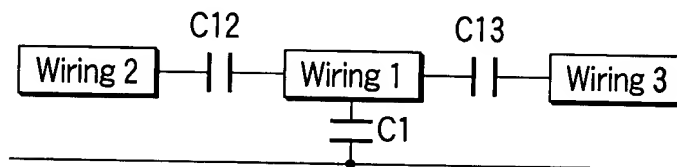
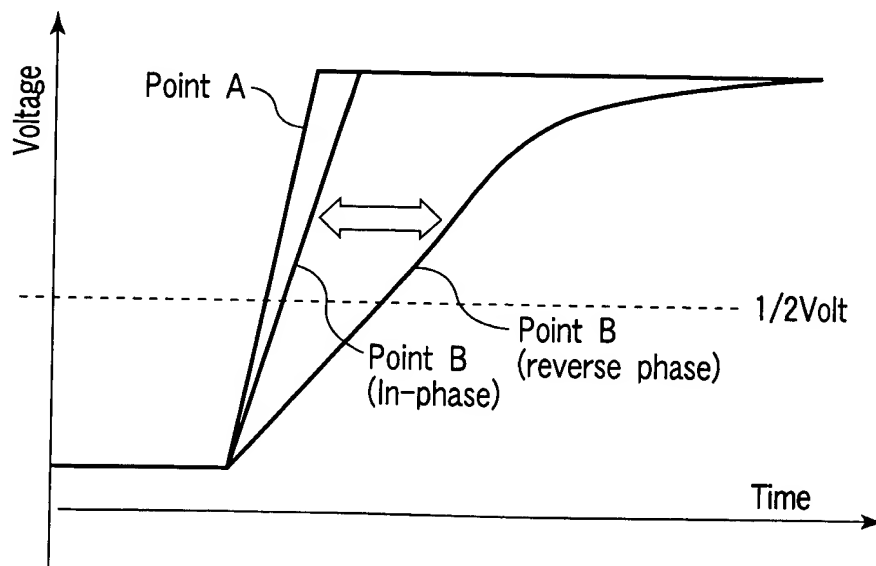


FIG. 16C
PRIOR ART

| | Wiring 2 | Wiring 1 | Wiring 3 | Data pattern |
|------------------|----------|----------|----------|---------------|
| Potential change | | | | In-phase |
| | | | | Reverse phase |
| | | | | In-phase |
| | | | | Reverse phase |

FIG. 16D
PRIOR ART



Potential change (ΔV) by the transient current which flows the power source GND

$$\Delta V = N \cdot L_{\text{eff}} \cdot (di/dt)$$

Effective inductance (L_{eff}) of PKG (power source)

Current drive performance (di/dt) of the driver

Simultaneous switching number (N)

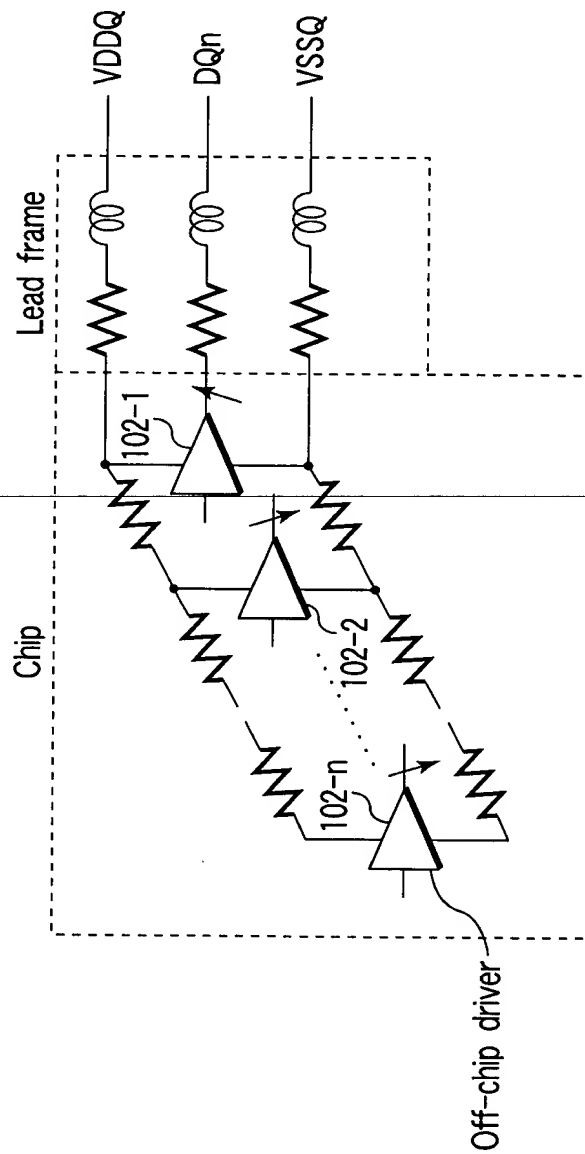


FIG. 17 PRIOR ART

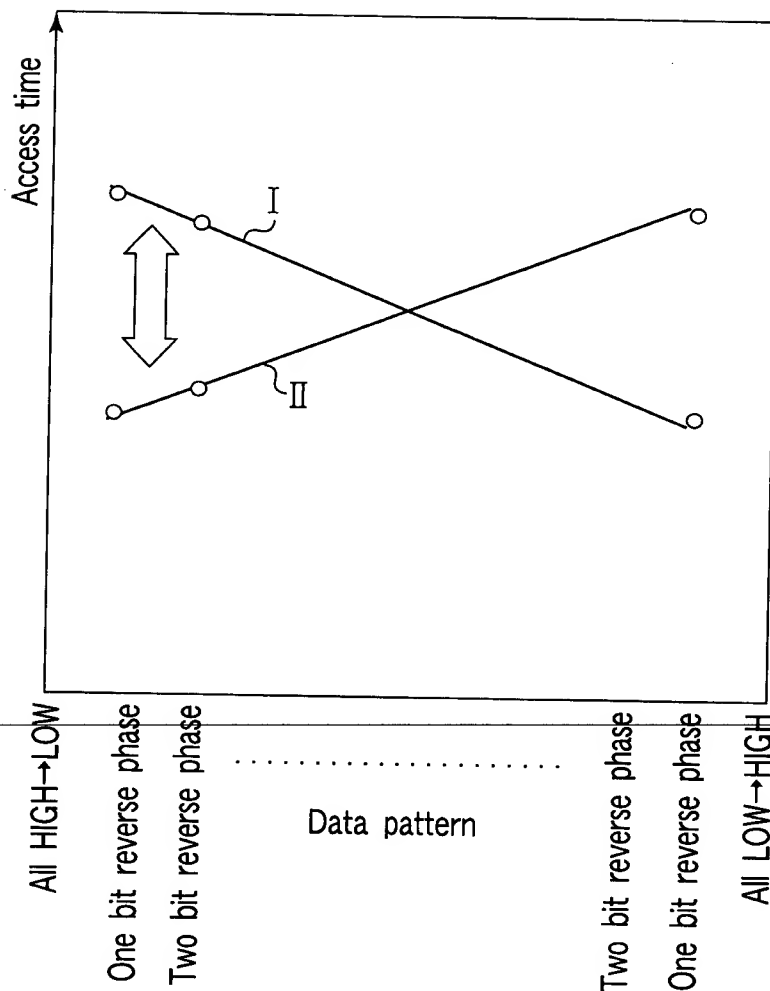


FIG. 18 PRIOR ART